

## Inotropic effect of dopamine on rat heart during postnatal ontogeny

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### Abstract

We studied the effect of dopamine in concentrations of  $10^{-9}$ ,  $10^{-8}$ ,  $10^{-7}$ ,  $10^{-6}$ , and  $10^{-5}$  M on contraction strength of isolated myocardial strips from the right atrium and right ventricle of rats aging 21, 42, 56, and 100 days. Dopamine in a concentration of  $10^{-9}$  M had a positive inotropic effect in rats of various ages. Increasing the concentration of dopamine to  $10^{-7}$ -  $10^{-5}$  M was accompanied by a negative inotropic effect on the heart. © 2013 Springer Science+Business Media New York.

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### Keywords

contractility, dopamine, dopamine receptors, myocardium, rat